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L2	375	traffic\$5 and 1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:19
L3	233	@ad<"20010716" and 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:24
L4	3363	(statistic\$5 analyz\$5) with (frequenc\$5 with power\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:20
L5	4	3 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:21
L6	2	("20020029293").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:21
L7	301	comsat.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:22
L8	1073	(709/249).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:24

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L9	0	8 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:24
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L11	1752	(455/12.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:25
L12	72	11 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:26
L13	4	11 and 3 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/08 15:26

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Relevance scale **1 Practical experiences in interconnecting LANs via satellite**

 Nedo Celadroni, Erina Ferro, Francesco Potortì, Alessandro Bellini, Franco Pirri
October 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 5

Publisher: ACM PressFull text available:  [pdf\(1.12 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We present an experiment in interconnecting LANs via a satellite link and describe the individual components involved in the experiment. The project was developed in two phases: a) design and realisation of a satellite access scheme that supports real-time and non real-time traffic with a signal fading countermeasure, called FODA/IBEA-TDMA; b) interconnection of LANs where real-time and non real-time applications run. The experiment was presented the first time in June 1994 as a demo in which th ...

Keywords: TDMA fade countermeasure, satellite, satellite LAN interconnection, satellite videoconference

2 Error control for data communication

 Andrew J. Viterbi
January 1976 **ACM SIGCOMM Computer Communication Review**, Volume 6 Issue 1

Publisher: ACM PressFull text available:  [pdf\(530.10 KB\)](#) Additional Information: [full citation](#)**3 Distributed testing and measurement across the Atlantic packet satellite network**

 (SATNET)
K. Seo, J. Crowcroft, P. Spilling, J. Laws, J. Leddy
August 1988 **ACM SIGCOMM Computer Communication Review, Symposium proceedings on Communications architectures and protocols SIGCOMM '88**, Volume 18 Issue 4

Publisher: ACM PressFull text available:  [pdf\(1.42 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The analysis of the test and measurement of TCP/IP performance over the Atlantic Packet Satellite Network (SATNET) is described. Both the methodology and tools as well as the results and their analysis are discussed. Because of the Internetwork nature of the environment, the tests were designed to allow the SATNET Measurement Taskforce to look at the effects of each component of the end-to-end path, e.g., local networks, gateways, SATNET, and protocol layers. Results are given for the IP se ...

4 On the effects of adaptive forward error correction mechanism in direct broadcast

 **satellite networks**

Fatih Alagoz, David Walters, Amina Alrustamani, Branimir Vojcic, Raymond Pickholtz
 August 1999 **Proceedings of the 2nd ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems**

Publisher: ACM Press

Full text available:  [pdf\(877.12 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



5 Applications and OS: Wireless sensor networks for habitat monitoring

 Alan Mainwaring, David Culler, Joseph Polastre, Robert Szewczyk, John Anderson

September 2002 **Proceedings of the 1st ACM international workshop on Wireless sensor networks and applications**

Publisher: ACM Press

Full text available:  [pdf\(542.04 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



We provide an in-depth study of applying wireless sensor networks to real-world habitat monitoring. A set of system design requirements are developed that cover the hardware design of the nodes, the design of the sensor network, and the capabilities for remote data access and management. A system architecture is proposed to address these requirements for habitat monitoring in general, and an instance of the architecture for monitoring seabird nesting environment and behavior is presented. The cu ...

Keywords: environmental monitoring, habitat monitoring, low power systems, sensor network architecture, wireless sensor networks

6 A model for the performance evaluation of packet transmissions using type-II hybrid ARQ over a correlated error channel



Rami Mukhtar, Stephen Hanly, Moshe Zukerman, Fraser Cameron

January 2004 **Wireless Networks**, Volume 10 Issue 1

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(205.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Type-II Hybrid-ARQ (Type-II HARQ) has been shown, under certain circumstances, to increase the efficiency and reduce loss of data transmissions over a wireless channel. However, it is difficult to predict how it will perform when transmission symbol errors are correlated. We present a computationally efficient approach to the performance evaluation of packet transmissions over a wireless link employing Type-II HARQ error mitigation when the physical channel is subject to correlated transmission ...

Keywords: correlated error channels, incremental redundancy, packet transmission latency and loss, type-II hybrid ARQ, wireless data networks

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Relevance scale **1 Practical experiences in interconnecting LANs via satellite** Nedo Celandroni, Erina Ferro, Francesco Potortì, Alessandro Bellini, Franco PirriOctober 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 5**Publisher:** ACM PressFull text available:  [pdf\(1.12 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We present an experiment in interconnecting LANs via a satellite link and describe the individual components involved in the experiment. The project was developed in two phases: a) design and realisation of a satellite access scheme that supports real-time and non real-time traffic with a signal fading countermeasure, called FODA/IBEA-TDMA; b) interconnection of LANs where real-time and non real-time applications run. The experiment was presented the first time in June 1994 as a demo in which th ...

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